

Fig. 1

Fig. 2

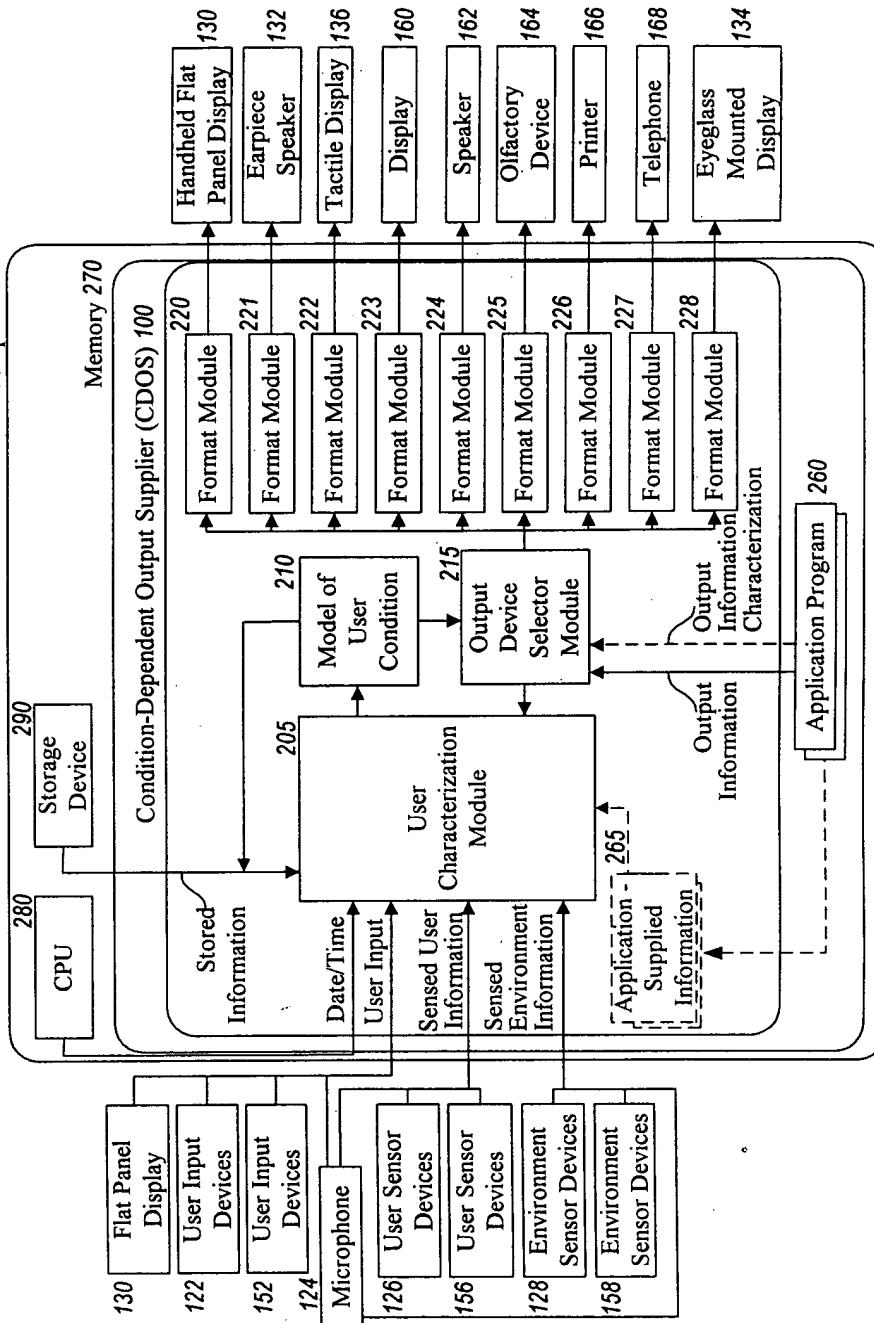


Fig. 3

Model of User Condition

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User: X	Time: 14:22	Date 10/15/XX
Latitude	37°55.3' N	
Longitude	95°24.7' W	
Altitude	102'	
Heart Rate	57 beats/minute	
Blood Pressure	125 / 80	
Last User Input	Voice Command "Stop Recording"	
Ambient Temperature	67°F	
Ambient Noise	20 dB	
Location	Office	
Speed	2 MPH	+/- 10%
Nearby Objects	Desk	
Nearby People	Physical: None. Audio: "Doug Smith"	
User Activity	Talking on Cell Phone, Walking	Highly Likely
Cognitive Load	77	
Level of Privacy	Company, Executive	
Scope of Audience	Self	
Application X-Factor 1	Normal: Mean-23, Std Dev 3	
User Format Preference	Visual > Auditory	
User Device Preference	Eyeglass Mounted Display	

2025 RELEASE UNDER E.O. 14176

Fig. 4

User: X	
IF	<Latitude> ≈ "37°55.2'N" AND <Longitude> ≈ "95°24.7'W" THEN <Location> = "Office"
IF	<Infrared Link To Desktop> = True THEN <Nearby Objects> Includes "Desk"
IF	<Voice Recognition.ID> <> "X" AND <Speakerphone.Status> = "Disabled" THEN <Nearby People> Includes ValueOf <Voice Recognition.ID>
IF	<Desktop.Motion.Sensor.Human.Movement> = True AND <User Activity> Includes "Seated" THEN <Nearby People.Physical> Includes "Unidentified Person"
IF	<User Activity> = "Walking" THEN <Cognitive Load> = 20
IF	<User Activity> = "Talking" THEN <Cognitive Load> = 55
IF	<User Activity> Includes "Walking" AND <User Activity> Includes "Talking On Cell Phone" THEN <Cognitive Load> = 77
WHILE	<Output To User> = True THEN <Cognitive Load> = +10
WHILE	<User.Mood> Includes "Angry" THEN <Cognitive Load> = +20%
IF	<Nearby People.*> Includes Only [Company Executives] THEN <Level Of Privacy> Includes "Executive"
IF	<Nearby People.*> Includes Only [Company Employees] THEN <Level Of Privacy> Includes "Company"
IF	<Nearby People.Physical> = "None" THEN <Scope of Audience> = "Self"
IF	<Output.Intrusive.To.Others> = "Likely" THEN <Scope of Audience> = "Self"
AppX.IF	<Application X-Factor 1.Mean> > 25 THEN <Application X Output> = "Undesired" WITH Likelihood "Likely"
IF	(<Current.Time> - <Time.Of.Last.User.Input>) > 5 minutes THEN <Interacting With Computer> = False WITH Likelihood "Somewhat Likely"

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Output Device Selector Module 215

Fig. 5

User: X								
Device	Currently Available	In Use	Supported Senses	Cognitive Load	Level of Privacy	Scope of Audience	Degree of Interruptibility	Degree of Intrusiveness on Others
Handheld Flat Panel Display 130	X		Visual, Audio	Very Low-Medium	All	Self [+3]	Low	Very Low
Earpiece Speaker 132	X	X	Audio	Very Low-Somewhat High	All	Self	Low-Very High	Very Low
Eyeglass Mounted Display 134	X		Visual	Very Low-Somewhat Low	All	Self	Medium-High	Very Low
Tactile Display 136	X		Tactile	Very Low-Very High	All	Self	Very Low-Very High	Very Low
Display 160	X		Visual	Very Low-Somewhat High	Business, Sensitive	Self +6	Low-Medium	Very Low-Medium
Speaker 162	X		Audio	Low-Somewhat High	Business	Many	Medium-High	Low-Very High
Olfactory Device 164	X		Olfactory	Medium-Somewhat High	Close Friends	Many	Very Low-Somewhat Low	Medium-Very High
Printer 166	X		Visual	Very Low-Very High	Business	Unlimited	Very Low	Somewhat High
Telephone 168	X		Audio	Very Low-Medium	Family	Self	High-Very High	High-Very High
Pager 502			Visual, Audio, Tactile	Very Low-High	All	Self	High	Medium-Very High
Cellular Telephone 504			Audio	Very Low-Medium	Highly Sensitive	Self	Medium-High	High-Very High
Car Radio 506			Audio	Low-Somewhat High	Sensitive	Self + Few	Low-High	High

Fig. 6

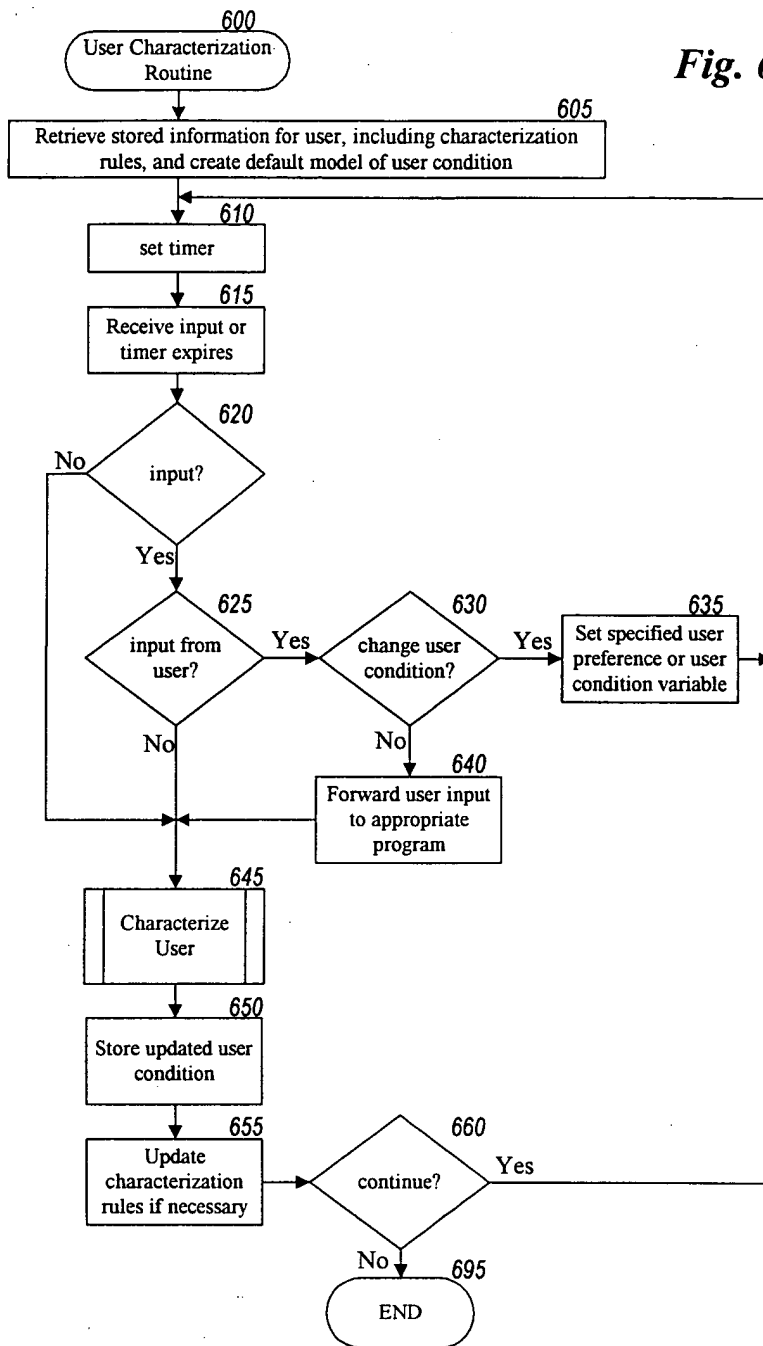
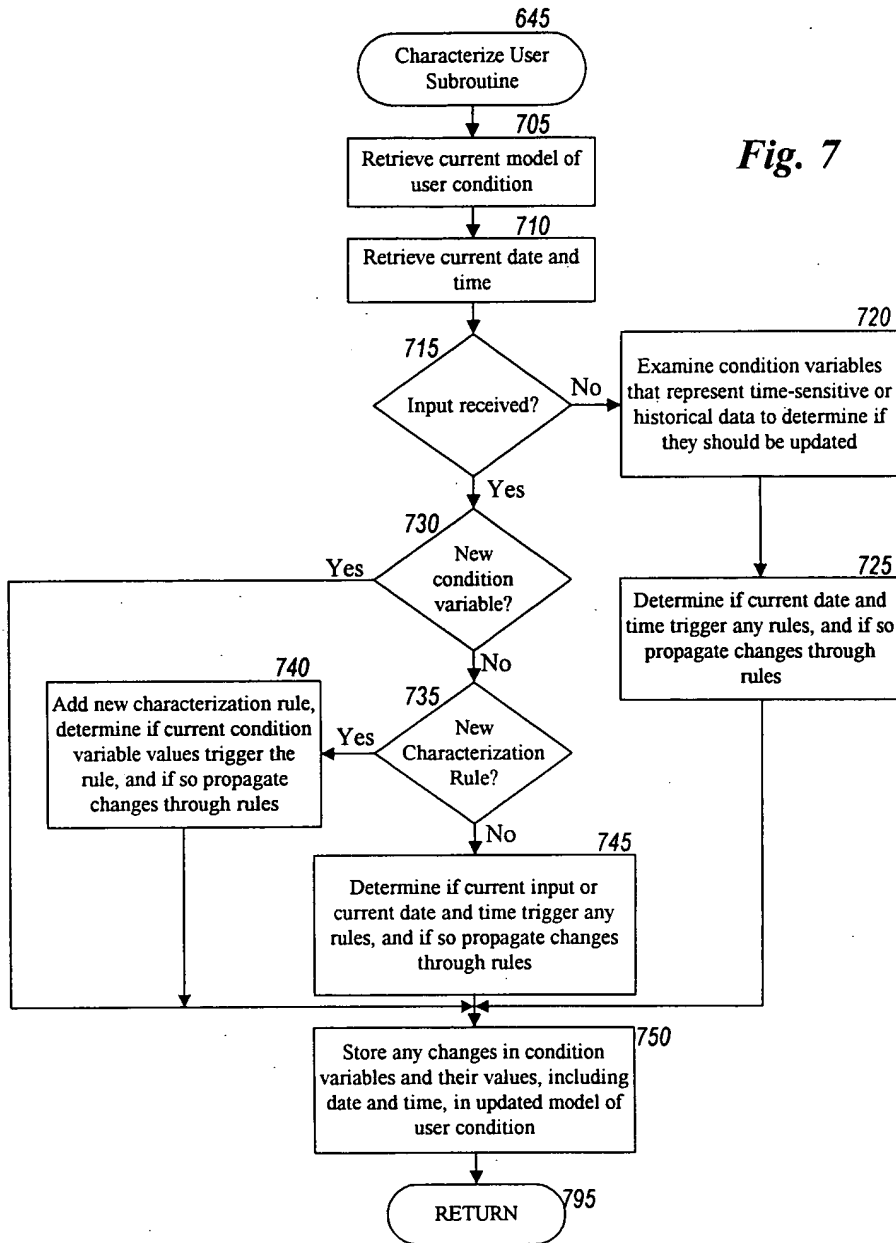


Fig. 7



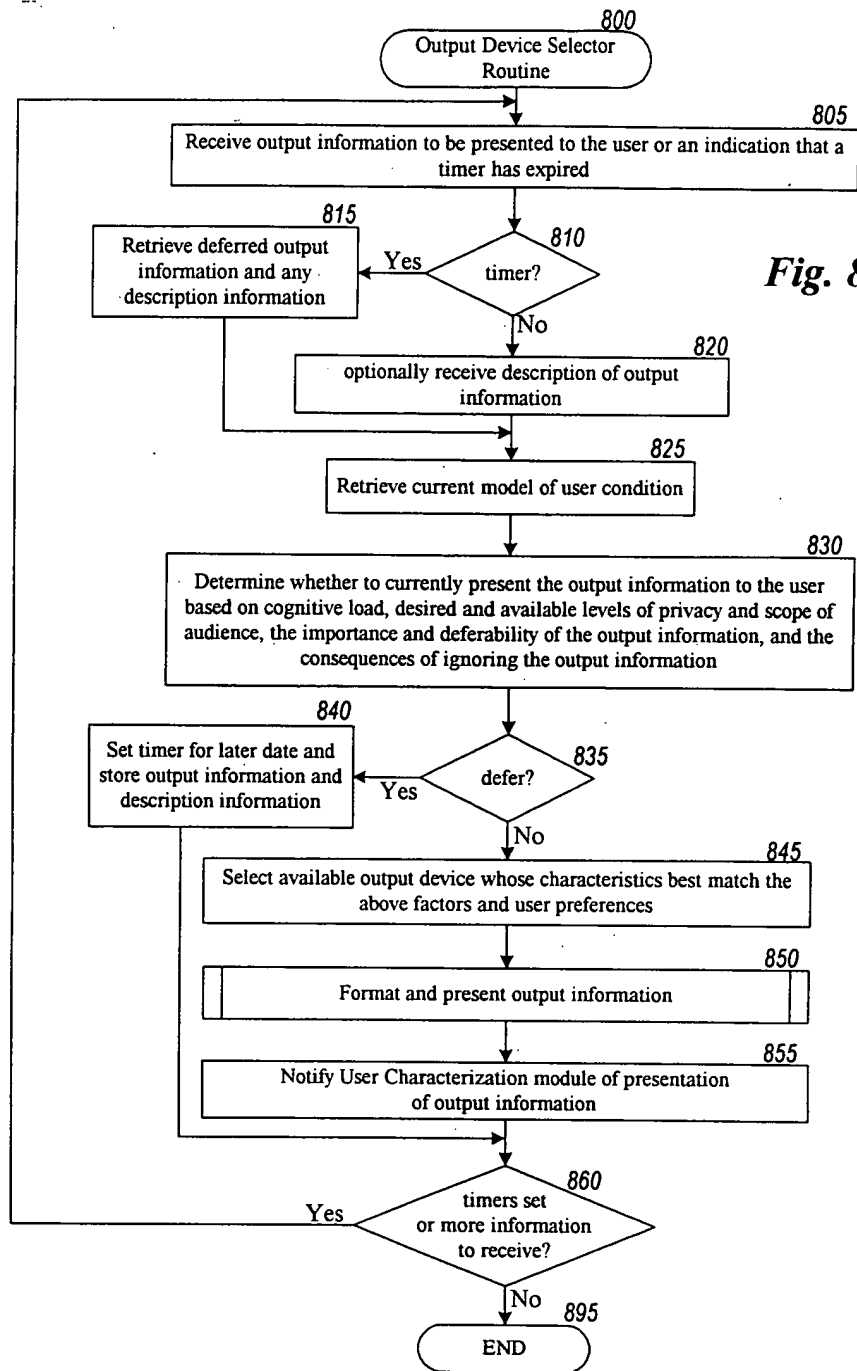


Fig. 9

